APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/960,769	09/21/2001	Steven Soria JR.	STL920000113US1	6311

7590 06/28/2006	EXAMINER
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ART UNIT	PAPER NUMBER
2178	

DATE MAILED: 06/28/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	09/960,769	SORIA ET AL.
Office Action Summary	Examiner	Art Unit	
	Kristina B. Honeycutt	2178	

-- *The MAILING DATE of this communication appears on the cover sheet with the correspondence address* --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE <u>3</u> MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *11 April 2006*.

2a)☒ This action is **FINAL**.   2b)☐ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-43* is/are pending in the application.

    4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1-43* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

    Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

    Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a)☐ All b)☐ Some * c)☐ None of:

        1.☐ Certified copies of the priority documents have been received.

        2.☐ Certified copies of the priority documents have been received in Application No. _____.

        3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

    * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☐ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
    Paper No(s)/Mail Date _____.

4) ☐ Interview Summary (PTO-413)
    Paper No(s)/Mail Date. _____.
5) ☐ Notice of Informal Patent Application (PTO-152)
6) ☐ Other: _____.

DETAILED ACTION

1.   This action is responsive to amendment filed April 11, 2006.

This action is made Final.

2.   Claims 1-43 remain pending in the case. Claims 1, 17 and 31 are independent

claims.

3.   The rejections of claims 3-6, 19-22 and 33-36 under 35 U.S.C. 103(a) as being

unpatentable over Sinander in view of Frey et al. (U.S. Patent 5410695; date of patent

April 25, 1995) have been withdrawn as necessitated by the amendment.

4.   The rejections of claims 7, 23 and 37 under 35 U.S.C. 103(a) as being

unpatentable over Sinander in view of Frey in further view of Akkary et al. (U.S. Patent

6591342; date of patent July 8, 2003; filed December 14, 1999) have been withdrawn

as necessitated by the amendment.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that

form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public
use or on sale in this country, more than one year prior to the date of application for patent in the United
States.

5.   Claims 1, 2, 3-6, 8-10, 12-15, 17, 18-22, 24, 25, 27-29, 31-36, 38, 39, 41 and 42

remain rejected under 35 U.S.C. 102(b) as being anticipated by Sinander (WO

99/08206; International Publication Date February 18, 1999; from information

Disclosure Statement filed December 18, 2001).

Regarding independent claim 1, Sinander discloses a method for supporting

versioning of data in a content management system, said method comprising the steps

of:

- associating version numbers, each having a different value, with a data item,

   wherein said data item is externally inputted data that is managed by said

   content management system (p.1, lines 10-12; p.2, lines 28-37; p.7, Table 1 – as

   demonstrated in the table and cited text, different version numbers in a database

   are used to handle storage and retrieval of data for different applications and

   environments, which can be an external environment);

- storing a most recent version of said data item in a first table (p.2, lines 36-37;

   p.3, lines 16-25; p.4, lines 2-4; p.5, lines 9-14; Figures 2b, 3, 4 – as

   demonstrated in the figures and cited text, a new version is added to a

   database);

- storing a version of said data item other than said most recent version in a

   second table (p.2, lines 33-35; p.3, lines 16-25; p.8, lines 4-9; Figures 2b, 3, 4 –

as demonstrated in the figures and cited text, a new version and old versions are

stored in tables); and

- performing an operation on said data item that changes a version of said data

  item in said first table or said second table (p.6, lines 7-18 – as demonstrated in

  the cited text, changing data or adding new entries causes both the new and old

  versions of tables to be updated).

Regarding dependent claim 2, Sinander discloses the method of claim 1, further

comprising:

- the step of associating said version numbers with different versions of said data

  item (p.7, Table 1, lines 25-35 – as demonstrated in the table and cited text,

  version numbers are associated with different version of data (base version,

  target version, upgrade version)).

Regarding dependent claim 3, Sinander discloses the method of claim 2, wherein

- each of said different versions is associated with a (version number - 1) value

  (p.7, Table 1, lines 25-35 – as demonstrated in the table and cited text, the

  different versions all have different values appended to the version name (1.0 for

  the base version, 1.1 for the target version)).

Regarding dependent claim 4, Sinander discloses the method of claim 3, wherein

- a particular version of said data item is determined based on an associated one of said (version number - 1) values (p.7, Table 1, lines 25-35 – as demonstrated in the table and cited text, the versions are determined based on the value, all base version have a value of 1.0 and all target versions have a value of 1.1).

Regarding dependent claim 5, Sinander discloses the method of claim 3, further comprising:

- the step of generating a value for said (version number -1) value by incrementing said (version number - 1) value from zero (0) to n (p.7, Table 1, lines 25-35 – as demonstrated in the table and cited text, the old version or base version has a value of 1.0 and the newer versions or target versions have an incremented value of 1.1).

Regarding dependent claim 6, Sinander discloses the method of claim 3, further comprising:

- the step of generating a value for said version number by incrementing said version number from zero (0) to m (p.7, Table 1, lines 25-35 – as demonstrated in the table and cited text, the old version or base version has a version number of 1.0 and the newer versions or target versions have an incremented version number of 1.1).

Regarding dependent claim 8, Sinander discloses the method of claim 1, wherein:

- said version number having a value of zero (0) is associated with said most

  recent version of said stored data item or an oldest version of said stored data

  item, depending on a context of use for said version number (p.7, Table 1, lines

  23-35; p.8, lines 4-9 – as demonstrated in the table and cited text, a value of zero

  is associated with the oldest version of data).

Regarding dependent claim 9, Sinander discloses the method of claim 1, wherein:

- said operation places a copy of a current most recent version of said data item in

  said second table and updates said current most recent version in said first table

  to a new most recent version, and wherein said associating step associates a

  new version number with said new most recent version in said first table (p.2,

  lines 28-37; p.3, lines 16-25; p.5, lines 9-14; p.6, lines 7-18; p.7, Table 1, lines

  23-35 – as demonstrated in the figure and cited text, a new most recent version

  is added to a table and all older versions, including the previous most recent

  version, are stored in a table).

Regarding dependent claim 10, Sinander discloses the method of claim 1, wherein:

- said operation including said version number having a value of zero (0) is

  interpreted as a request for said most recent version of said stored data item,

  and said operation is selected from a group consisting of a query operation, a

  retrieve operation, and an update operation (p.2, lines 33-37; p.7, lines 25-28;

p.8, lines 4-9 – as demonstrated in the cited text, an update operation is

performed and the most recent version is requested).

Regarding dependent claim 12, Sinander discloses the method of claim 1, wherein:

- said step of performing comprises a step of performing a query for a version of

    said data item stored in said first table or second table (p.7, lines 25-35 – as

    demonstrated in the cited text, a query is performed on data).

Regarding dependent claim 13, Sinander discloses the method of claim 1, wherein:

- a first instance of a version of said data item is stored in said first table (p.4, lines

    2-4; p.7, lines 23-35; figures 2b, 3, 4 – as demonstrated in the figures and cited

    text, a version of the data is stored in a first table).

Regarding dependent claim 14, Sinander discloses the method of claim 1, wherein:

- said step of performing comprise a step of performing a query on said first table

    and said second table wherein a column attribute of a column selected by said

    query is retained in a result of said query (p.7, Table 1; p.8, lines 4-9 – as

    demonstrated in the table and cited text, a column attribute is retained as a result

    of a query).

Regarding dependent claim 15, Sinander discloses the method of claim 14, wherein:

- said query invokes a union operation (p.3, lines 1-7, 16-25 – as demonstrated in the cited text, a union operation is invoked).

Regarding independent claim 17, Sinander discloses a system for supporting versioning of data in a content management system, said system comprising:

- a memory (Figure 1; p.4, lines 26-27 – as demonstrated in the figure and cited text, a memory is disclosed);

- means for associating version numbers, each having a different value, with a data item, wherein said data item is externally inputted data that is managed by said content management system (p.1, lines 10-12; p.2, lines 28-37; p.7, Table 1 – as demonstrated in the table and cited text, different version numbers in a database are used to handle storage and retrieval of data for different applications and environments, which can be an external environment);

- means for storing a most recent version of said data item in said memory and a second table for storing a version of said data item other than said most recent version in said memory (p.2, lines 33-35; p.3, lines 16-25; p.8, lines 4-9; Figures 2b, 3, 4 – as demonstrated in the figures and cited text, a new version and old versions are stored in tables); and

- means for performing an operation on said data item that changes a version of said data item in said memory or said second table (p.6, lines 7-18 – as demonstrated in the cited text, changing data or adding new entries causes both the new and old versions of tables, which are stored in memory, to be updated).

Regarding dependent claims 18, 24, 25 and 27-29, the claims reflect the system with

means for performing the operations of claims 2, 8, 10 and 13-15 respectively and are

rejected along the same rationale.

Regarding dependent claims 19-22 and 33-36, the claims reflect the system and

storage medium for performing the method of claims 3-6 and are rejected along the

same rationale.

Regarding claims 31, 32, 38, 39, 41 and 42, the claims reflect the storage medium

having computer readable instructions for performing the operations of claims 1, 2, 8,

10, 14 and 15 respectively and are rejected along the same rationale.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set
> forth in section 102 of this title, if the differences between the subject matter sought to be patented and
> the prior art are such that the subject matter as a whole would have been obvious at the time the
> invention was made to a person having ordinary skill in the art to which said subject matter pertains.
> Patentability shall not be negatived by the manner in which the invention was made.

6.   Claims 7, 23 and 37 are rejected under 35 U.S.C. 103(a) as being unpatentable

over Sinander in view of Akkary et al. (U.S. Patent 6591342; date of patent July 8,

2003; filed December 14, 1999).

Regarding dependent claim 7, Sinander does not disclose m has a predetermined

maximum value. Akkary teaches a predetermined maximum value for version numbers

(col. 12, lines 55-65). It would have been obvious to one of ordinary skill in the art,

having the teachings of Sinander and Akkary before him at the time the invention was

made, to modify the version numbers taught by Sinander to include a predetermined

maximum value as taught by Akkary, because incrementing to a predetermined

maximum value would allow the system to accurately check for buffer overflows if the

version number was used as an indicator (col. 12, lines 55-65).

Regarding dependent claims 23 and 37, the claims reflect the system and storage

medium for performing the method of claim 7 and are rejected along the same rationale.

7.   Claims 11, 26 and 40 remain rejected under 35 U.S.C. 103(a) as being

unpatentable over Sinander in view of Duvillier et al. (U.S. Pub. No. 20020103815;

publication date August 1, 2002; filed December 12, 2000).

Regarding dependent claim 11, Sinander discloses said operation including said

version number having a value of zero (0) is interpreted as a request for an oldest

version of said stored data item (p.7, lines 25-35).

Sinander does not disclose a delete operation. Duvillier teaches a delete

operation (p.6, para. 79). It would have been obvious to one of ordinary skill in the art,

having the teachings of Sinander and Duvillier before him at the time the invention was

made, to modify the method taught by Sinander to include a delete operation as taught

by Duvillier, because deleting older versions of data, as taught by Duvillier (p.6, para.

79), would free memory in the system.

Regarding dependent claims 26 and 40, the claims reflect the system and storage

medium for performing the method of claim 11 and are rejected along the same

rationale.

8.   Claims 16, 30 and 43 remain rejected under 35 U.S.C. 103(a) as being

unpatentable over Sinander in view of Schwartz et al. (U.S. Pub. No. 20020073089;

publication date June 13, 2002; filed October 1, 2001).

Regarding dependent claim 16, Sinander does not disclose column attribute is

obtained from a sequential query language description area of said query result.

Schwartz teaches SQL obtains column attributes (p.6, para. 71). It would have been

obvious to one of ordinary skill in the art, having the teachings of Sinander and

Schwartz before him at the time the invention was made, to modify the method taught

by Sinander to include SQL obtaining column attributes as taught by Schwartz, because

SQL was well-known at the time of the invention for querying and using a well-known

language would have allowed more users to utilize the invention since there was a

familiarity with SQL.

Regarding dependent claims 30 and 43, the claims reflect the system and storage

medium for performing the method of claim 16 and are rejected along the same

rationale.

Response to Arguments

9.   Applicant's arguments filed April 11, 2006 have been fully considered but they

are not persuasive. Regarding amended independent claims 1, 17 and 31, Applicants

indicate Sinander does not disclose "an operation on said data item that changes a

version of said data item in said first table or said second table" or "in said memory or

said second table" (p.10, para. 3-4). The Examiner disagrees because Sinander

discloses performing an operation on said data item that changes a version of said data

item in said first table or said second table (p.6, lines 7-18). In other words, Sinander

teaches changing data or adding new entries, which will cause both the new and old

versions of tables to be updated. The new and old versions are stored in memory.

Claims 2-16, 18-30 and 32-43 depend from independent claims 1, 17 and 31 and
are therefore rejected at least based on the rationale of the rejection above.

Regarding amended dependent claim 9, Applicants indicate Sinander does not
disclose that the operation places a copy of a current most recent version of the data
item in table 2 and updates the current most recent version of the data item to form a
new most recent version of the data item in table 1 and that the associating step
associates a new version with the new most current version of the data item in the first
table (p.10-11, para. 5). The Examiner disagrees because Sinander discloses said
operation places a copy of a current most recent version of said data item in said
second table and updates said current most recent version in said first table to a new
most recent version, and wherein said associating step associates a new version
number with said new most recent version in said first table (p.2, lines 28-37; p.3, lines
16-25; p.5, lines 9-14; p.6, lines 7-18; p.7, Table 1, lines 23-35). In other words,
Sinander teaches a new most recent version being added to a table and all older
versions, including the previous most recent version, being stored in a table. When an
change occurs, all older versions are stored in a table and the new most current version
is added to another table.

Applicant's arguments with respect to claims 3-6, 19-22 and 33-36 have been
considered but are moot in view of the new ground(s) of rejection. Furthermore,

dependent claims 3-6, 19-22 and 33-36 depend from independent claims 1, 17 and 31

and are therefore rejected at least based on the rationale of the rejection above.

Applicant's arguments with respect to claims 7, 23 and 37 have been considered

but are moot in view of the new ground(s) of rejection. Furthermore, dependent claims

7, 23 and 37 depend from independent claims 1, 17 and 31 and are therefore rejected

at least based on the rationale of the rejection above.

Conclusion

10.   Applicant's amendment necessitated the new ground(s) of rejection presented in

this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP

§ 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37

CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE

MONTHS from the mailing date of this action. In the event a first reply is filed within

TWO MONTHS of the mailing date of this final action and the advisory action is not

mailed until after the end of the THREE-MONTH shortened statutory period, then the

shortened statutory period will expire on the date the advisory action is mailed, and any

extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

the advisory action. In no event, however, will the statutory period for reply expire later
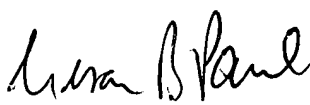
than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kristina B. Honeycutt whose telephone number is 571-272-4123. The examiner can normally be reached on 8-5:00 Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Hong can be reached on 571-272-4124. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

KBH

CESAR PAULA
PRIMARY EXAMINER